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03/07/01

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/780,113

Source: OIPE

Date Processed by STIC: 3-8-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable-form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/780,113

DATE: 03/08/2001
 TIME: 11:49:51

Input Set : A:\1041801 v1 - 50681-20001.txt
 Output Set: N:\CRF3\03082001\I780113.raw

Does Not Comply
 Corrected Diskette Needed

```

3 <110> APPLICANT: TYRRELL, JOHN V.
4   BERGQUIST, PATRICIA R.
5   BERGQUIST, PETER L.
6   SCHOLIN, CHRISTOPHER A.
8 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING RAPHDOPHYTES
10 <130> FILE REFERENCE: 50681200121
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/780,113
C--> 13 <141> CURRENT FILING DATE: 2001-02-09
15 <150> PRIOR APPLICATION NUMBER: 09/596,136
17 <151> PRIOR FILING DATE: 2000-06-16
20 <160> NUMBER OF SEQ ID NOS: 30
22 <170> SOFTWARE: PatentIn Ver. 2.1
  
```

ERRORED SEQUENCES

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90 <210> SEQ ID NO: 5
91 <211> LENGTH: 18
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Description of Artificial Sequence:Artificial
98 <226> FEATURE:
99 <226> OTHER INFORMATION: olignucleotide probe
101 <400> SEQUENCE: 5
E--> 102 gcatgttgaa acgctccag
115 <210> SEQ ID NO: 20
116 <211> LENGTH: 21
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Description of Artificial Sequence:Artificial
123 <226> FEATURE:
124 <226> OTHER INFORMATION: olignucleotide probe
E--> 126 <400> SEQUENCE: 25 21?
E--> 127 tcatatttc ctacgggtac ttgtt
485 <210> SEQ ID NO: 30
487 <211> LENGTH: 20
488 <212> TYPE: DNA
489 <213> ORGANISM: Artificial Sequence
491 <220> FEATURE:
492 <223> OTHER INFORMATION: Description of Artificial Sequence:Artificial
494 PCR Primer
496 <400> SEQUENCE: 30
C--> 497 ccttggtccg tytttaaga
E--> 507 1
  
```

Number of bases differ:
 - 18 listed
 - 19 shown

*21 listed
 - 25 shown*

move to here.

move to here.

Delete extraneous numeral from the end of the file. It is causing an invalid base count for sequence # 30.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/780,113

DATE: 03/08/2001

TIME: 11:49:53

Input Set : A:\#1041801 v1 - 50681-20001.txt

Output Set: N:\CRF3\03082001\1780113.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
 L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:39 M:112 C: (48) String data converted to lower case,
 L:57 M:112 C: (48) String data converted to lower case,
 L:72 M:112 C: (48) String data converted to lower case,
 L:87 M:112 C: (48) String data converted to lower case,
 L:102 M:112 C: (48) String data converted to lower case,
 L:102 M:252 E: No. of Seq. differs, <21>LENGTH:Input:18 Found:19 SEQ:5
 L:117 M:112 C: (48) String data converted to lower case,
 L:132 M:112 C: (48) String data converted to lower case,
 L:147 M:112 C: (48) String data converted to lower case,
 L:162 M:112 C: (48) String data converted to lower case,
 L:177 M:112 C: (48) String data converted to lower case,
 L:192 M:112 C: (48) String data converted to lower case,
 L:207 M:112 C: (48) String data converted to lower case,
 L:222 M:112 C: (48) String data converted to lower case,
 L:237 M:112 C: (48) String data converted to lower case,
 L:252 M:112 C: (48) String data converted to lower case,
 L:267 M:112 C: (48) String data converted to lower case,
 L:282 M:112 C: (48) String data converted to lower case,
 L:297 M:112 C: (48) String data converted to lower case,
 L:312 M:112 C: (48) String data converted to lower case,
 L:326 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:20 differs:25
 L:327 M:112 C: (48) String data converted to lower case,
 L:327 M:252 E: No. of Seq. differs, <21>LENGTH:Input:21 Found:25 SEQ:20
 L:342 M:112 C: (48) String data converted to lower case,
 L:357 M:112 C: (48) String data converted to lower case,
 L:369 M:112 C: (48) String data converted to lower case,
 L:378 M:112 C: (48) String data converted to lower case,
 M:112 Repeated in SeqNo=24
 L:398 M:112 C: (48) String data converted to lower case,
 M:112 Repeated in SeqNo=25
 L:418 M:112 C: (48) String data converted to lower case,
 M:112 Repeated in SeqNo=26
 L:438 M:112 C: (48) String data converted to lower case,
 M:112 Repeated in SeqNo=27
 L:458 M:112 C: (48) String data converted to lower case,
 M:112 Repeated in SeqNo=28
 L:493 M:112 C: (48) String data converted to lower case,
 L:497 M:112 C: (48) String data converted to lower case,
 L:507 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:20 SEQ:30